

(L)

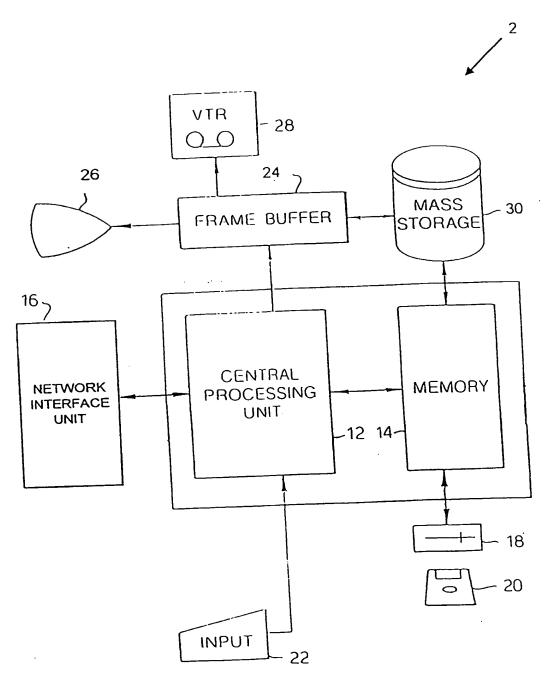


FIG. 2

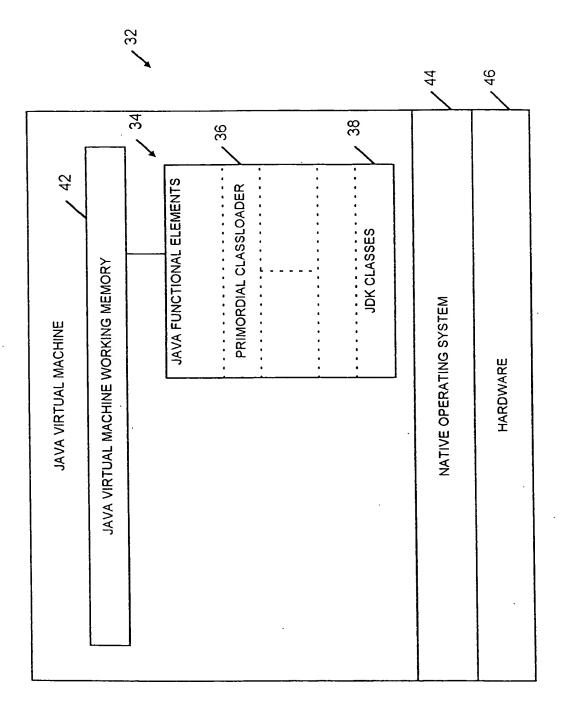
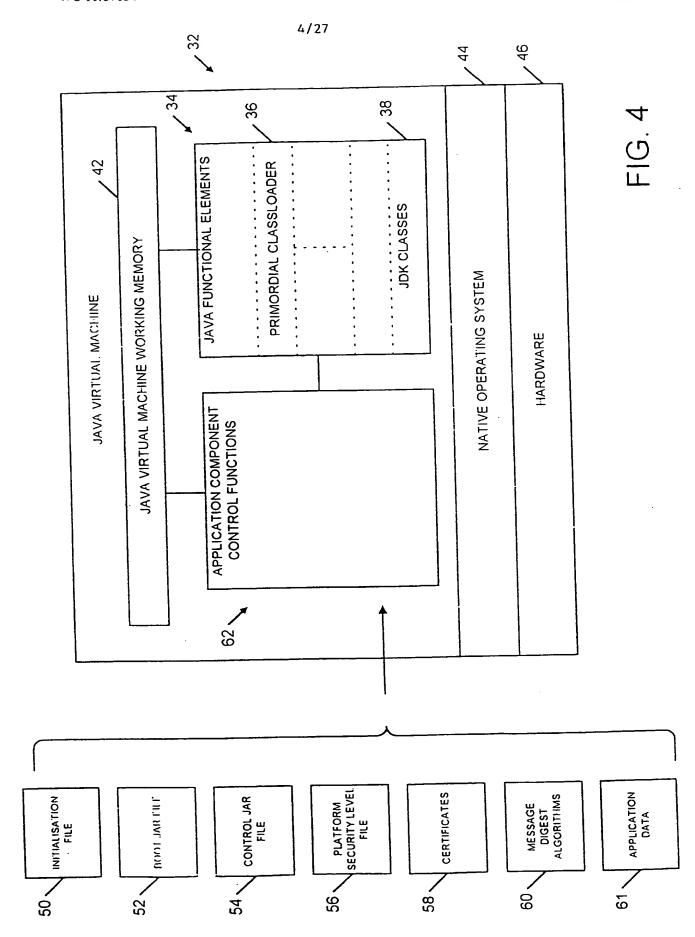


FIG. 3



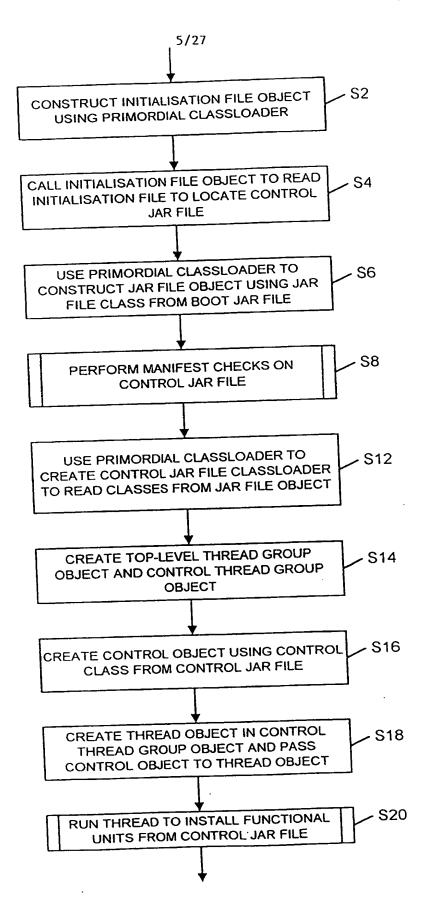


FIG. 5

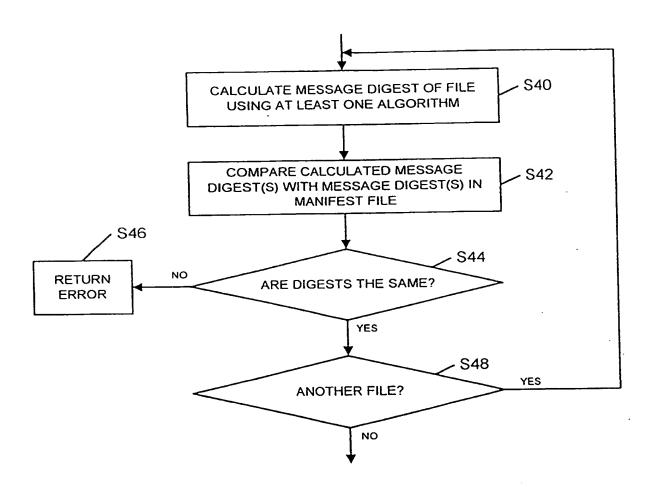


FIG. 6

PRIMORDIAL NAMESPACE OBJECTS AND
ASSOCIATED CLASS
OBJECTS PROVIDING
APPLICATION
COMPONENT CONTROL
FUNCTIONS 62 CONTROL NAMESPACE

FIG 7

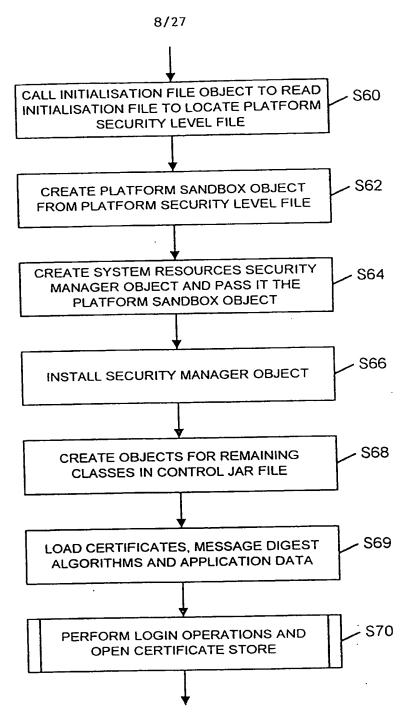
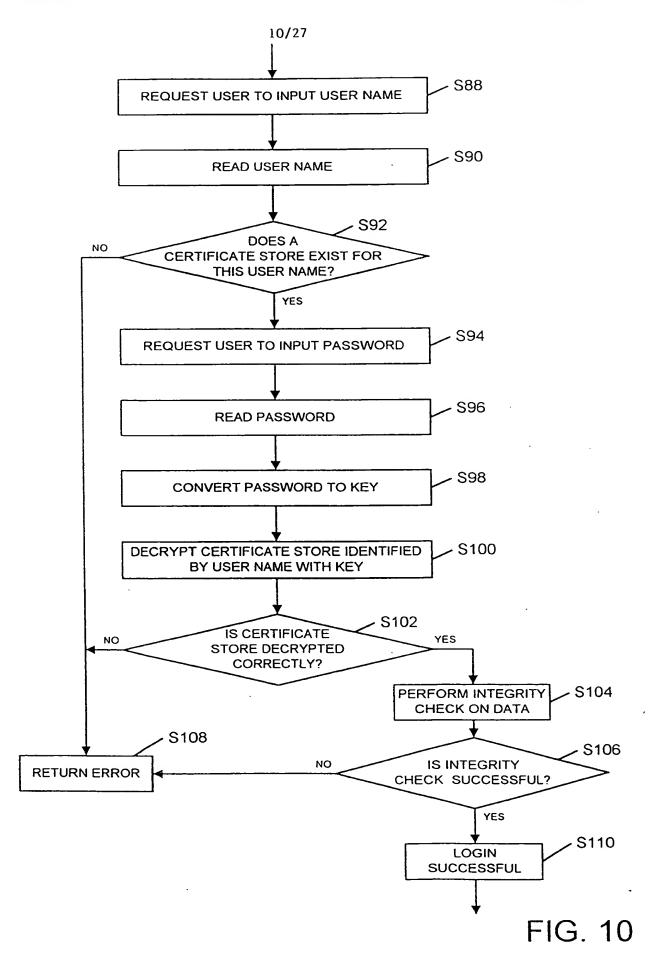


FIG. 8

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WO 99/57634 PCT/GB99/01390



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COMPONENT CONTROL SUP1.COMPONENT A VERSION 1.0 IMPORT: COMPONENT B AT URL 4; / 142 CLASS B1 **EXPORT:** INSTALLATION INSTRUCTIONS SHUTDOWN INSTRUCTIONS CLASS A1 144 CLASS A2 CLASS A3 **CLASS An RESOURCE A1** 146 RESOURCE An **/** 148 SANDBOX FILE , 150 ROLE X1 CERTIFICATE 152 ORIGIN CERTIFICATE 154 GUARANTORS CERTIFICATES , 156 MANIFEST FILE **/** 158 DIGITAL SIGNATURE FOR ROLE X1 **/** 160 DIGITAL ORIGIN SIGNATURE

FIG. 11a

140

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COMPONENT CONTROL SUP2. COMPONENT B VERSION 1.0 IMPORT: COMPONENT C AT URL 8; , 142 CLASS C2 EXPORT: B1; ROLE (X1; X2) EXPORT: B2; ROLE (X3) INSTALLATION INSTRUCTIONS SHUTDOWN INSTRUCTIONS CLASS B1 144 CLASS B2 CLASS B3 CLASS Bn , 148 SANDBOX FILE ROLE Y1 CERTIFICATE , 150 ROLE X1 CERTIFICATE ROLE X2 CERTIFICATE ROLE X3 CERTIFICATE ORIGIN CERTIFICATE *-* 152 , 154 **GUARANTORS CERTIFICATES /** 156 MANIFEST FILE **158** DIGITAL SIGNATURE FOR ROLE Y1 *,* 160 DIGITAL ORIGIN SIGNATURE

FIG. 11b

140、

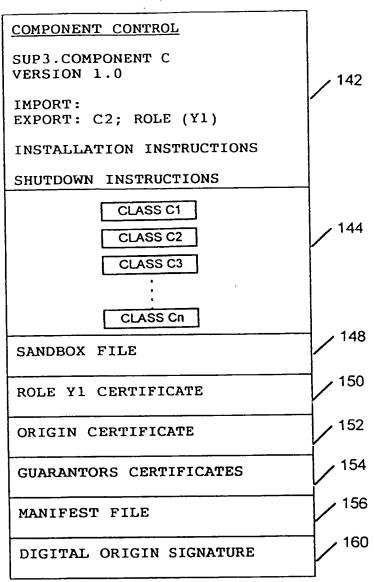


FIG. 11c

180

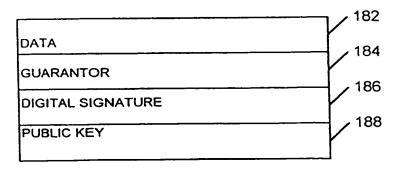
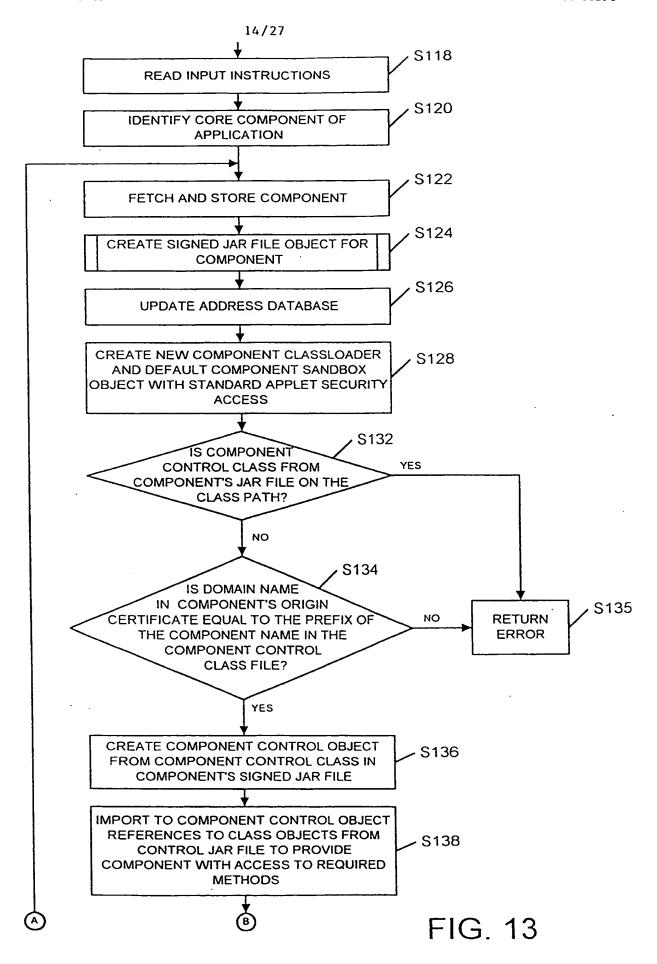
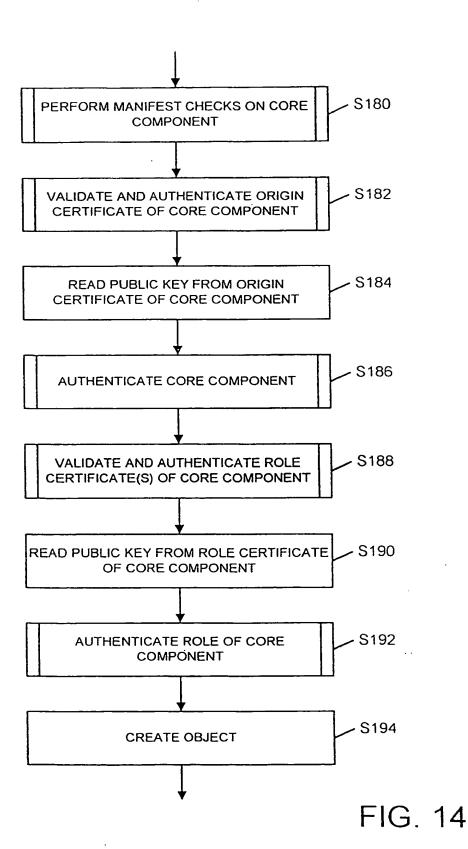


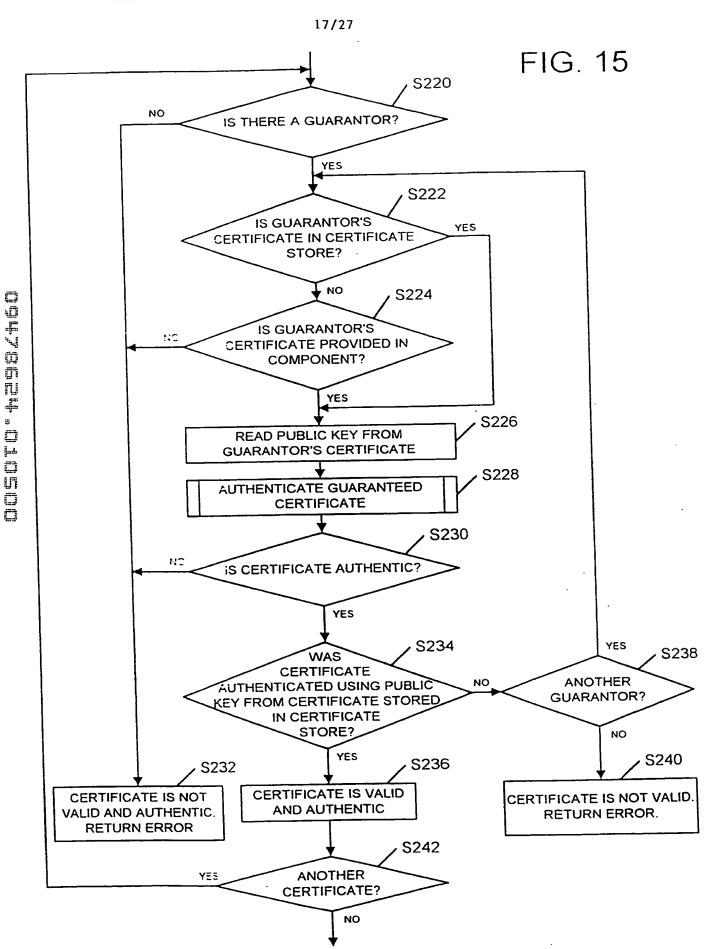
FIG. 12



S140 CREATE NEW THREADGROUP FOR COMPONENT. CREATE AND RUN THREAD. S142 PERFORM EXPORT S143 STORE REFERENCE TO NEW CLASSLOADER IN NAMESPACE OF IMPORTING COMPONENT S144 YES ANOTHER COMPONENT TO BE IMPORTED? NO - S146 CREATE COMPONENT SANDBOX OBJECT AND REPLACE DEFAULT SANDBOX OBJECT **S148** IS THIS NO THE FIRST TIME THE COMPONENT HAS BEEN LOADED? YES - S150 PERFORM INSTALLATION INSTRUCTIONS S152 YES ANOTHER COMPONENT? NO

FIG. 13 cont





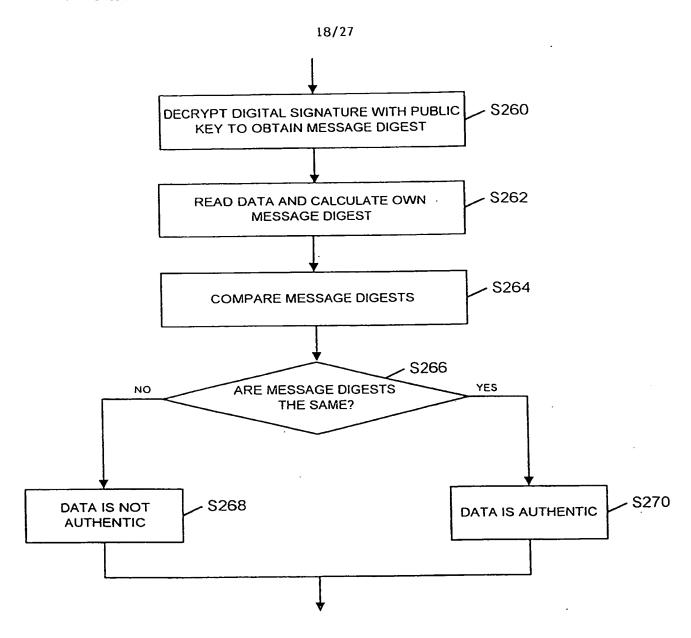


FIG. 16

notrest.otosoo

COMPONENT	VERSION	LOCATION	LOCAL COPY	LOCAL COPY DATE STORED
A	1.0	ADDRESS A1 ADDRESS A2	`	
м	1.0	ADDRESS B	`	
υ	1.0	ADDRESS C	, ,	

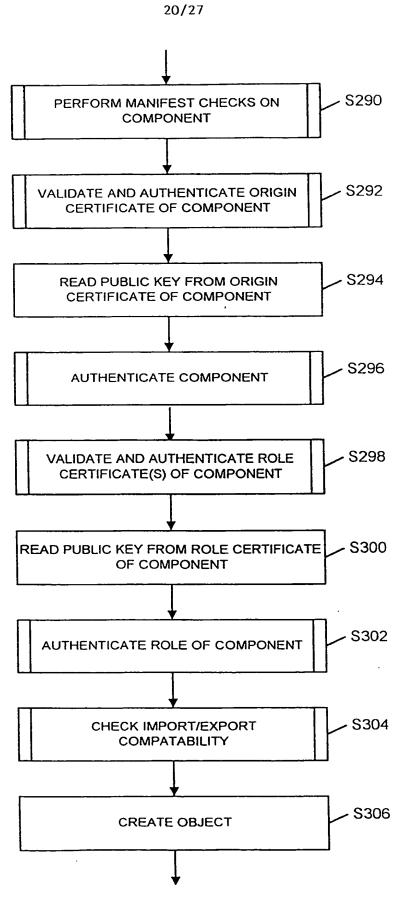


FIG. 18

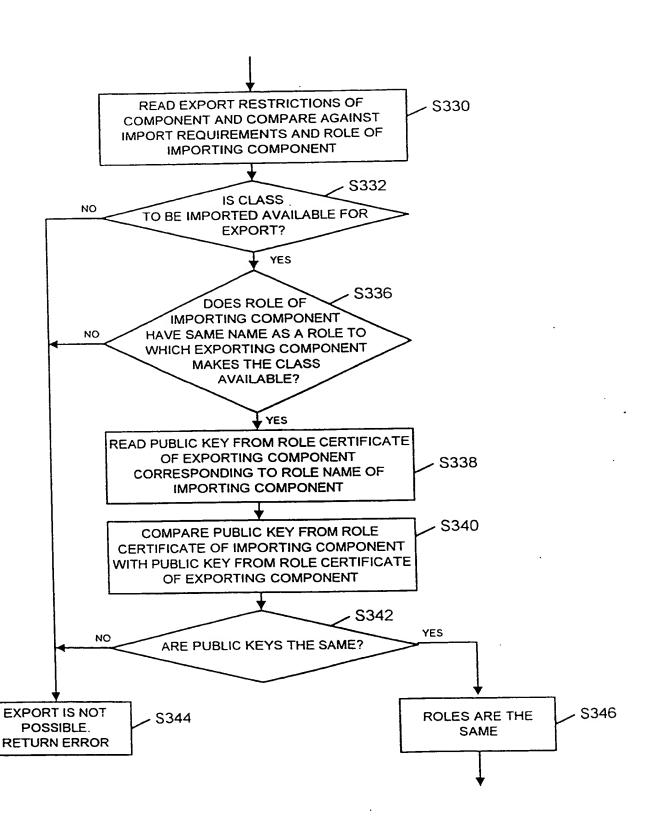
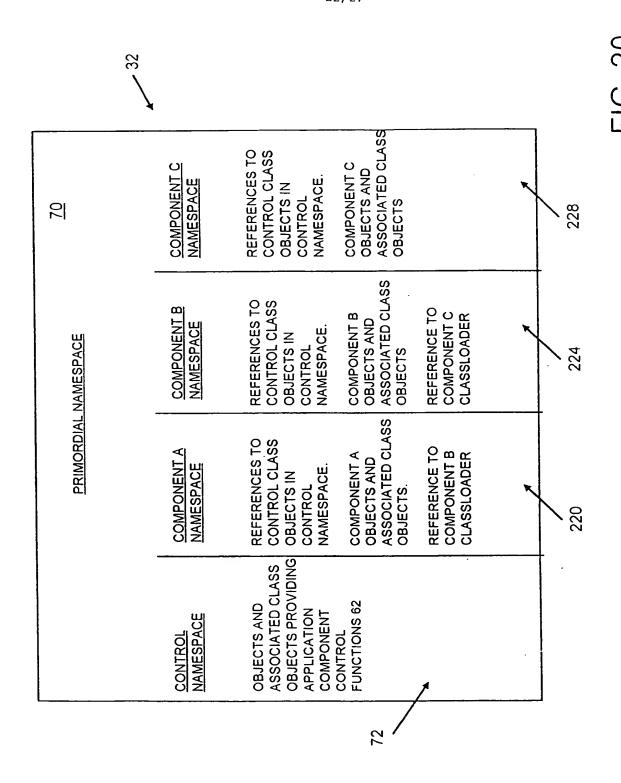


FIG. 19



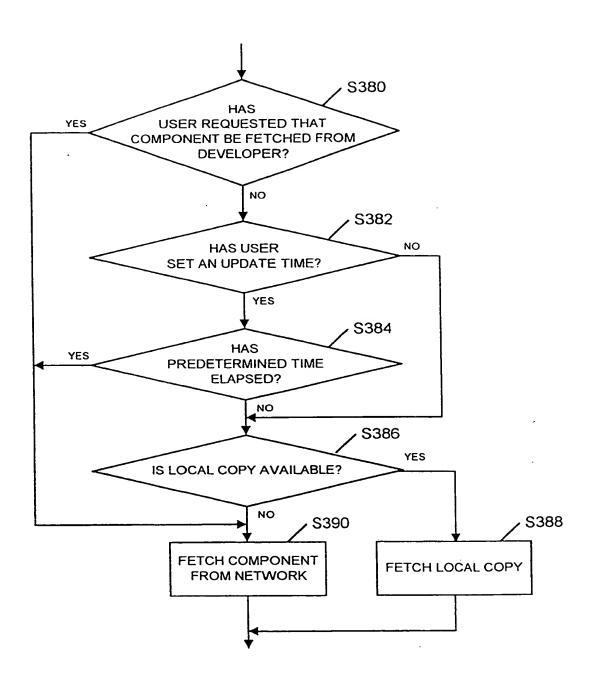


FIG. 21

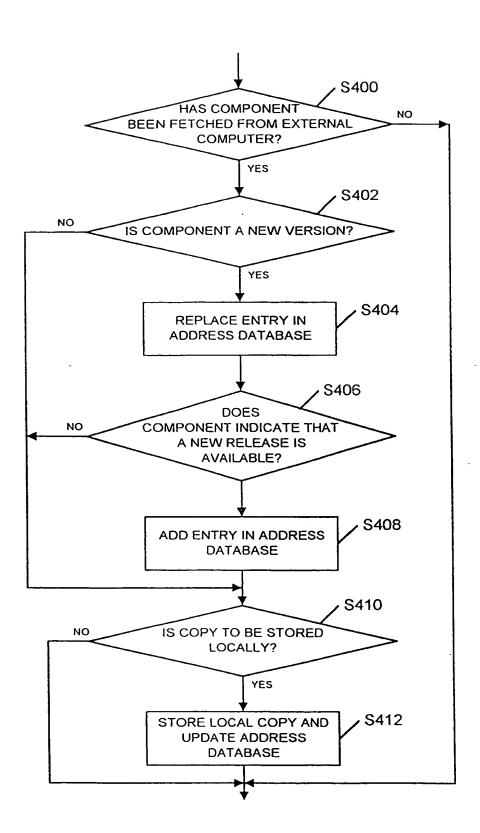
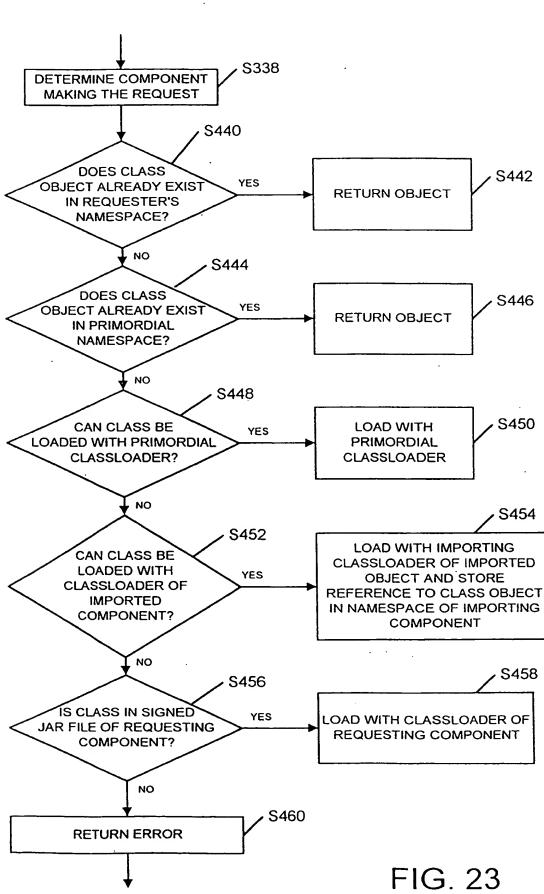


FIG. 22



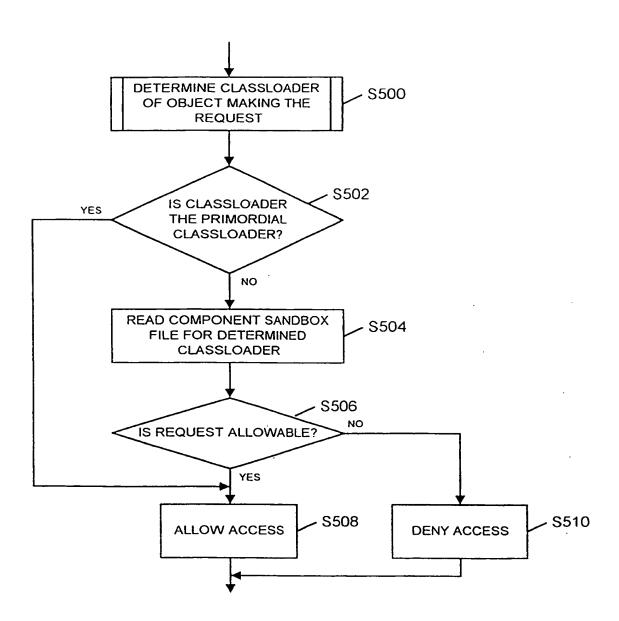


FIG. 24





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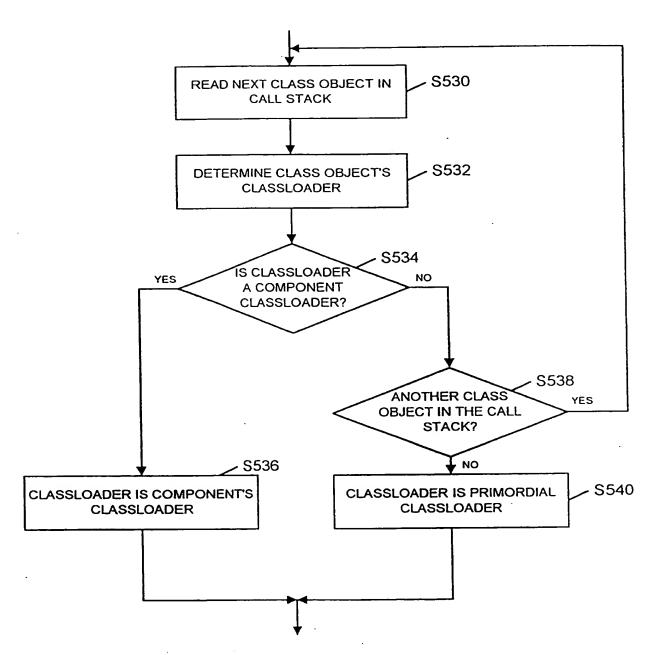


FIG. 25